

SOUTHEAST ALASKA PORT SAMPLING PROJECT

ANNUAL REPORT FOR THE PERIOD JULY 1, 1989 TO JUNE 30, 1990

By

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INTRODUCTION

This Federal Aid Project provided funding to the Alaska Department of Fish and Game, Division of Commercial Fisheries, for collection of biological and fleet performance data at major ports of landing in Southeast Alaska and Yakutat during the 1988-1989 winter troll and 1989 summer troll, gill net, and purse seine fisheries. This data is used by federal, state, and private agencies in a variety of management and research applications. All port sampling activities associated with coded microwire tag (CWT) recovery, troll fishery performance data (FPD), biological sampling for scale, age, sex, and size (AWL) data, and sex-ratio sampling were unified under this project. Federal Pacific Salmon Treaty research funding supported the sampling of sockeye salmon for AWL data in southern Southeast catches and escapements.

This project supported three components: (1) CWT sampling; (2) AWL sampling and; (3) FPD sampling. This report includes summaries of CWT, AWL, and FPD sampling effort.

CODED MICROWIRE TAG RECOVERY

Methods and Procedures

Project goals were to sample a minimum of 20% of both the chinook and coho salmon harvested in the troll and net fisheries; 20% of the chum salmon harvested in each of the Districts 101-114 net fisheries; and 20% of the sockeye salmon harvested in the each of the Districts 101 through 108 seine and gill net fisheries. The fall run of chum salmon in the District 102 purse seine fishery is not specifically sampled since it is a wild stock fishery and none of the stocks targeted are represented by coded wire tags. The same is true for the District 115 gill net fishery. Pacific Salmon Commission funds supported increased sampling effort on chinook salmon throughout the year.

Alaska Department of Fish and Game employees representatively sampled chinook, coho, chum, and sockeye salmon for CWT data throughout the duration of the 1989 troll, purse seine, and gill net fisheries. Samplers were stationed at the principal ports of Sitka, Pelican, Juneau, Petersburg, Wrangell, Ketchikan, Craig, Excursion Inlet, Hoonah, and Yakutat. Data and heads of all marked fish were sent to the Fisheries Research, Enhancement, and Development Division's (ADF&G) tag lab in Juneau on a weekly basis. The sampling effort was monitored throughout the season and adjustments were made in manpower and sampling assignments among the ports to assure that the sampling level was uniform throughout the region.

Results and Discussion

Our CWT sampling goals were generally met or exceeded for all species in the troll and gill net fisheries. However, some undersampling of coho, chum, and sockeye salmon occurred in the purse seine fisheries. This undersampling resulted, in part, from delivery restrictions imposed by processors backlogged by unexpectedly large pink salmon catches. Backlogged processors would accept

deliveries only from tenders. Particularly in Ketchikan, tenders would anchor in the channel waiting their turn to unload. While waiting, these tenders would often buy fish from other fisheries. This mixing of catch from different fisheries and gear types made many deliveries unsuitable for sampling. Realizing that we were undersampling we placed personnel aboard tenders to sample unmixed deliveries but this was relatively inefficient and sampling goals could not be met. Some undersampling also occurred in those purse seine and gill net fisheries in which few of the target species were caught.

Project personnel sampled 15,143 chinook salmon during the winter fishery, 18,687 during the June "experimental" and "hatchery access" troll fisheries, and 52,687 chinook salmon from the summer troll fishery (Table 1). Chinook sampling levels were 44% in the winter troll, 43% in the June experimental troll, and 33% in the summer troll fishery. A total of 431,586 coho salmon were sampled from the summer troll fishery, for a sampling rate of 30% (Table 2).

In the regional purse seine fisheries, a total of 4,092 chinook (Table 3), 44,119 coho (Table 4), 119,747 chum (Table 5), and 81,525 sockeye salmon (Table 6) were sampled, resulting in respective sampling rates of 23%, 13%, 11%, and 11%.

In regional drift gill net fisheries, personnel sampled 3,853 chinook (Table 7), 84,908 coho (Table 8), 172,743 chum (Table 9), and 129,840 sockeye salmon (Table 10). This effort corresponded to 36% of the chinook, 20% of the coho, 28% of the chum, and 29% of the sockeye salmon harvested. These totals include Annette Island Fishery Reserve gill net catches which were sampled in Metlakatla by local residents.

SCALE, AGE, SEX, AND SIZE SAMPLING

Methods and Procedures

The annual goal of the project is to develop a comprehensive data base on the abundance, age, sex, and size composition of sockeye, chum, coho, and chinook salmon in Southeast Alaska catches and escapements. This data base should enable us to test models which estimate stock contributions and interceptions, to determine migratory timing patterns, to develop spawner/recruit relationships, and to make preseason and in-season forecasts of returns.

Scale, age, sex, and size data (AWL) were collected by ADF&G employees from catches at all ports listed above, and escapements of chinook, sockeye, chum, and coho salmon from throughout Southeast Alaska and Yakutat during the summer of 1989. Project personnel sampled chinook salmon from the winter troll fishery, chinook and coho salmon from the summer troll fishery, and chinook, coho, sockeye, and chum salmon from the purse seine and gill net fisheries. From the Yakutat area set net catches we sampled chinook, coho, sockeye, and chum salmon. Chinook, coho, sockeye, and chum salmon escapements were sampled by ADF&G and other agency personnel in many major and minor systems in the region.

Sampling goals, by stratum, were designed to collect sufficient numbers to estimate the proportion of each age class to within \pm 5 percentage points 90% of the time in each stratum based on the standard binomial formulae (Cochran 1977). For major net fisheries, the desired strata was for weekly catch by district and gear type. Troll fishery strata combined districts into quadrants. Those

species with more age classes required greater sample sizes. Generally between 400 to 600 samples per strata were sufficient to achieve the goals.

Pink salmon sex-ratio sampling was conducted to accumulate the data base required to determine if run timing could be monitored based on the sex ratios found in the weekly harvests. The goal was to sample a minimum of 300 pink salmon for sex each week from locations within the purse seine fisheries. Particular sampling locations were chosen because they: 1) were usually open to weekly fishing; and 2) we could usually obtain mixed samples from these locations.

Results and Discussion

In general, all AWL sampling goals were achieved in 1989. The 1989 AWL sample collection by species, gear, and week are presented in Tables 11-20. Compilation of AWL data for sockeye salmon were currently under review and will be presented by Rowse (in prep). Compilation of data for other species is currently being prepared by Pahlke (in prep) for chinook salmon, Dangel (in prep) for chum salmon, and Wood (in prep) for coho salmon. AWL data for salmon sampled in Yakutat area fisheries will be presented in Rowse (in prep).

A summary of the numbers of pink salmon sex-ratio sampled in 1989 is presented in Table 21.

FISHERY PERFORMANCE DATA

The project goal was to sample a minimum of 2,000 randomly selected troll deliveries for FPD.

Alaska Department of Fish and Game employees sampled summer troll deliveries to the ports listed above for fishery performance data. The FPD sampling was cibdycted in conjunction with CWT sampling. Troll fishermen were interviewed at the time of landing to obtain catch and effort data. This FPD data was used primarily to estimate chinook salmon harvests to date and to project catch rates. These estimates were essential for in-season regulation of the fishery to insure that chinook salmon catch quotas set by the Alaska Board of Fisheries, the North Pacific Fishery Management Council, and the Pacific Salmon Commission were not exceeded. Approximately 2,100 complete FPD interviews were obtained from the 1989 summer troll fishery. Detailed FPD sampling rates are presented in Table 22.

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Table 1. Chinook salmon coded wire tag sampling effort summary for the Southeast Alaska commercial troll fishery, 1988-1989.

Dates		Northern Inside	Northern Outside	Southern Inside	Southern Outside	Total
10/01/88 - 12/31/88	Catch	11,392	7,846	4,764	410	24,412
	Sample	6,119	2,680	2,333	156	11,288
	%	53.71	34.16	48.97	38.05	46.24
1/01 - 6/03/89	Catch	2,742	3,813	2,487	898	9,940
	Sample	1,857	957	888	153	3,855
	%	67.72	25.10	35.71	17.04	38.78
6/04 - 6/10/89	Catch	6,326	4,015	2,669	1,192	14,202
	Sample	3,286	2,328	1,310	517	7,441
	%	51.94	57.98	49.08	43.37	52.39
6/11 - 6/17/89	Catch	160	181	826		1,167
	Sample	125	25	113		263
	%	78.13	13.81	13.68		22.54
6/18 - 6/24/89	Catch	6,514	5,272	3,291	1,959	17,036
	Sample	3,183	1,667	1,832	1,595	8,277
	%	48.86	31.62	55.67	81.42	48.59
6/25 - 7/01/89	Catch	1,482	8,203	772	615	11,072
	Sample	675	129	192	12	1,008
	%	45.55	1.57	24.87	1.95	9.10
7/02 - 7/15/89	Catch	12,000	120,325	8,865	16,695	157,885
	Sample	6,123	37,055	3,806	5,543	52,527
	%	51.03	30.80	42.93	33.20	33.27
7/16 - 8/19/89	Catch	0	0			0
	Sample	28	52			80
	%					
8/20 - 9/30/89	Catch			3		3
	Sample			0		0
	%					0.00
Total	Catch	40,616	149,655	23,677	21,769	235,717
	Sample	21,396	44,893	10,474	7,976	84,739
	%	52.68	30.00	44.24	36.64	35.95

Table 2. Coho salmon coded wire tag sampling effort summary for the Southeast Alaska commercial troll fishery, 1989.

Dates		Northern Inside	Northern Outside	Southern Inside	Southern Outside	Total
6/11 - 6/17/89	Catch Sample %		1	4		4 1 25.00
6/18 - 6/24/89	Catch Sample %	1,848 642 34.74	1,345 103 7.66	996 630 63.25	2,274 1,898 83.47	6,463 3,273 50.64
6/25 - 7/01/89	Catch Sample %	861 171 19.86	1,664 340 20.43	294 47 15.99	2,485 11 0.44	5,304 569 10.73
7/02 - 7/15/89	Catch Sample %	20,020 6,994 34.94	46,229 8,933 19.32	21,047 8,880 42.19	45,882 16,301 35.53	133,178 41,108 30.87
7/16 - 8/19/89	Catch Sample %	79,897 26,451 33.11	500,638 150,896 30.14	80,902 30,229 37.36	180,793 47,334 26.18	842,230 254,910 30.27
8/20 - 9/30/89	Catch Sample %	26,905 6,460 24.01	354,920 113,679 32.03	20,073 6,306 31.42	26,434 5,280 19.97	428,332 131,725 30.75
Total	Catch Sample %	129,531 40,718 31.43	904,796 273,952 30.28	123,316 46,092 37.38	257,868 70,824 27.47	1,415,511 431,586 30.49

Table 3. Chinook salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1989.

Stat Week	Dates	Districts												Total
		101	102	103	104	106	107	109	110	112	113	114	Total	
26	6/25 - 7/01	Catch	1,417				132							1,549
		Sample	206				132							338
		%	14.54				100.00							21.82
27	7/02 - 7/08	Catch	450		1		19		208	250	121	70		1,119
		Sample	34		18		0		145	425	0	0		622
		%	7.56		1,800		0.00		69.71	170.00	0.00	0.00		55.59
28	7/09 - 7/15	Catch	63	39	33			328	48	69	11			591
		Sample	19	0	13			494	208	70	10			814
		%	30.16	0.00	39.39			150.61	433.33	101.45	90.91			137.73
29	7/16 - 7/22	Catch	199	36	63		18	323	167	22	17			845
		Sample	36	0	2		0	179	142	19	0			378
		%	18.09	0.00	3.17		0.00	55.42	85.03	86.36	0.00			44.73
30	7/23 - 7/29	Catch	33	43	33		62	534	47	23	18			793
		Sample	15	0	25		46	388	29	4	4			511
		%	45.45	0.00	75.76		74.19	72.66	61.70	17.39	22.22			64.44
31	7/30 - 8/05	Catch	194	69	61	2,264		74	146	62	11			2,881
		Sample	27	1	0	158		40	62	14	31			333
		%	13.92	1.45	0.00	6.98		54.05	42.47	22.58	281.82			11.56
32	8/06 - 8/12	Catch	149	389	271	7,052	183	65	52	4	12	4		8,181
		Sample	133	97	11	71	138	48	50	12	6	15		581
		%	89.26	24.94	4.06	1.01	75.41	73.85	96.15	300.00	50.00	375.00		7.10
33	8/13 - 8/19	Catch	15	55	15	96		11	9		3	2		206
		Sample	10	19	3	135		37	2	3	0	0		209
		%	66.67	34.55	20.00	140.63		336.36	22.22		0.00	0.00		101.46
34	8/20 - 8/26	Catch	19	9	44	12		4	5		4			97
		Sample	64	0	9	16		3	32		0			124
		%	336.84	0.00	20.45	133.33		75.00	640.00		0.00			127.84
35	8/27 - 9/02	Catch	20	79	1	1,169		16			14			1,299
		Sample	42	17	0	108		1			11			179
		%	210.00	21.52	0.00	9.24		6.25			78.57			13.78
37	9/10 - 9/16	Catch		45										45
		Sample		3										3
		%		6.67										6.67
38	9/17 - 9/23	Catch		17										17
		Sample		0										0
		%		0.00										0.00
39	9/24 - 9/30	Catch		6										6
		Sample		0										0
		%		0.00										0.00
Total		Catch	2,559	787	392	10,723	183	247	220	1,543	604	253	118	17,629
		Sample	586	137	23	546	138	221	170	1,283	838	139	14	4,092
		%	22.90	17.41	5.87	5.09	75.41	89.47	77.27	83.15	138.74	54.94	11.86	23.21

Table 4. Coho salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1989.

Stat Week	Dates	Districts												Total	
		101	102	103	104	106	107	109	110	112	113	114			
27	7/02 - 7/08	Catch	278		4,025			249	82	23	155	4,812			
		Sample	112		1,700			50	85	0	35	1,982			
		%	40.29		42.24			20.08	103.66	0.00	22.58	41.19			
28	7/09 - 7/15	Catch	663	1,857	14,154			558	328	56	77	17,693			
		Sample	463	528	3,738			163	124	36	22	5,074			
		%	69.83	28.43	26.41			29.21	37.80	64.29	28.57	28.68			
29	7/16 - 7/22	Catch	3,711	6,959	11,061			1,604	1,064	1,896	500	227	27,022		
		Sample	1,033	576	1,022			0	186	313	61	24	3,215		
		%	27.84	8.28	9.24			0.00	17.48	16.51	12.20	10.57	11.90		
30	7/23 - 7/29	Catch	4,145	7,808	175	19,355		324	5,315	6,264	2,726	1,865	2,614	50,591	
		Sample	910	782	0	2,956		0	256	1,292	202	213	286	6,897	
		%	21.95	10.02	0.00	15.27		0.00	4.82	20.63	7.41	11.42	10.94	13.63	
31	7/30 - 8/05	Catch	5,267	5,344	3,356	28,829			2,341	1,254	3,514	116		50,021	
		Sample	774	27	0	1,090		1	427	215	380	88		3,002	
		%	14.70	0.51	0.00	3.78		18.24	17.15	10.81	75.86		6.00		
32	8/06 - 8/12	Catch	5,471	7,869	5,626	31,452	3,049	639	4,484	340	3,889	316		63,135	
		Sample	796	411	294	3,433	509	246	873	454	185	108		7,309	
		%	14.55	5.22	5.23	10.92	16.69	38.50	19.47	133.53	4.76	34.18		11.58	
33	8/13 - 8/19	Catch	3,744	6,958	7,012	22,829		1,138	1,411		2,389	834	246	46,561	
		Sample	481	272	718	1,103	39	200	449		385	0	0	3,647	
		%	12.85	3.91	10.24	4.83		17.57	31.82		16.12	0.00	0.00	7.83	
34	8/20 - 8/26	Catch	4,400	5,623	6,130	14,210		1,257	1,756		4,315			37,691	
		Sample	1,120	713	1,269	1,971		77	745		3,855			9,750	
		%	25.45	12.68	20.70	13.87		6.13	42.43		89.34			25.87	
35	8/27 - 9/02	Catch	5,360	6,976	1,612	12,805		905	298		3,429			31,385	
		Sample	850	1,554	98	1,374		130	0		1,109			5,115	
		%	15.86	22.28	6.08	10.73		14.36	0.00		32.34			16.30	
36	9/03 - 9/09	Catch	543											543	
		Sample	11											11	
		%	2.03											2.03	
37	9/10 - 9/16	Catch	96	1,289										1,385	
		Sample	0	36										36	
		%	0.00	2.79										2.60	
38	9/17 - 9/23	Catch	60	539	458									1,057	
		Sample	63	0	0									63	
		%	105.00	0.00	0.00									5.96	
39	9/24 - 9/30	Catch	586											586	
		Sample	0											0	
		%	0.00											0.00	
40	10/01 - 10/07	Catch	406											406	
		Sample	0											0	
		%	0.00											0.00	
Total		Catch	33,738	52,214	24,369	158,720	3,049	4,263	17,209	9,729	22,568	3,710	3,319	332,888	
		Sample	6,613	4,899	2,379	18,387	548	654	2,750	2,360	6,638	506	367	46,101	
		%	19.60	9.38	9.76	11.58	17.97	15.34	15.98	24.26	29.41	13.64	11.06	13.85	

Table 5. Chum salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1989.

Stat Week	Dates	Districts												Total	
		101	102	103	104	106	107	109	110	112	113	114			
26	6/25 - 7/01	Catch	1,736											1,736	
		Sample	106											106	
		%	6.11											6.11	
27	7/02 - 7/08	Catch	8,540		5,050		5		1,532	32,965	1,451	14,497		64,040	
		Sample	2,816		2,212		0		300	17,567	0	1,064		23,959	
		%	32.97		43.80		0.00		19.58	53.29	0.00	7.34		37.41	
28	7/09 - 7/15	Catch	9,987	1,753		14,067			3,856	9,864	8,701	1,393		49,621	
		Sample	2,389	184		3,451			1,712	2,851	862	236		11,685	
		%	23.92	10.50		24.53			44.40	28.90	9.91	16.94		23.55	
29	7/16 - 7/22	Catch	32,015	4,773		12,033			8,217	16,652	43,423	14,978	1,201	133,292	
		Sample	5,553	439		651			0	2,985	3,038	1,322	171	14,159	
		%	17.34	9.20		5.41			0.00	17.93	7.00	8.83	14.24	10.62	
30	7/23 - 7/29	Catch	19,724	14,594	186	18,389			5,326	25,208	12,689	35,371	8,932	11,628	152,047
		Sample	2,140	1,454	0	2,639			0	1,092	2,673	2,620	1,017	2,309	15,944
		%	10.85	9.96	0.00	14.35			0.00	4.33	21.07	7.41	11.39	19.86	10.49
31	7/30 - 8/05	Catch	27,938	9,695	3,104	35,691			8,066	1,700	19,923	1,304		107,421	
		Sample	1,038	21	0	1,421			538	1,438	442	3,045	0	7,943	
		%	3.72	0.22	0.00	3.98			17.83	26.00	15.28	0.00		7.39	
32	8/06 - 8/12	Catch	33,869	28,885	6,811	38,899	3,750	4,883	11,181	141	7,881	2,010		138,310	
		Sample	5,021	1,755	314	6,266	510	1,182	2,122	439	902	0		18,511	
		%	14.82	6.08	4.61	16.11	13.60	24.21	18.98	311.35	11.45	0.00		13.38	
33	8/13 - 8/19	Catch	33,309	20,043	12,061	41,429			4,035	5,996		3,516	1,971	1,070	123,430
		Sample	5,431	594	632	2,578	28	701	1,522		721	0	0		12,207
		%	16.30	2.96	5.24	6.22			17.37	25.38		20.51	0.00	0.00	9.89
34	8/20 - 8/26	Catch	48,229	25,031	14,970	27,448			4,745	6,201		3,062			129,686
		Sample	8,176	1,689	2,559	5,021			300	2,682		2,246			22,673
		%	16.95	6.75	17.09	18.29			6.32	43.25		73.35			17.48
35	8/27 - 9/02	Catch	34,082	32,915	12,764	17,633			2,099	5,203		4,720			109,416
		Sample	3,739	6,555	144	3,936			374	0		1,379			16,127
		%	10.97	19.91	1.13	22.32			17.82	0.00		29.22			14.74
36	9/03 - 9/09	Catch	24,312											24,312	
		Sample	213											213	
		%	0.88											0.88	
37	9/10 - 9/16	Catch	170	6,095										6,265	
		Sample	0	251										251	
		%	0.00	4.12										4.01	
38	9/17 - 9/23	Catch	867	6,962	695									8,524	
		Sample	34	0	0									34	
		%	3.92	0.00	0.00									0.40	
39	9/24 - 9/30	Catch		12,478										12,478	
		Sample		0										0	
		%		0.00										0.00	
40	10/01 - 10/07	Catch		30,294										30,294	
		Sample		0										0	
		%		0.00										0.00	
Total		Catch	274,778	193,518	50,591	210,639	3,750	21,093	70,072	36,570	160,725	39,347	29,789	1,090,872	
		Sample	33,734	12,942	3,649	25,963	538	3,095	8,856	8,251	16,802	3,201	2,716	119,747	
		%	12.28	6.69	7.21	12.33	14.35	14.67	12.64	22.56	10.45	8.14	9.12	10.98	

Table 6. Sockeye salmon coded wire tag sampling effort summary for the Southeast Alaska commercial purse seine fisheries, 1989.

Stat Week	Dates	Districts											Total		
		101	102	103	104	106	107	109	110	112	113	114			
26	6/25 - 7/01	Catch					1						1		
		Sample					0						0		
		%					0.00						0.00		
27	7/02 - 7/08	Catch	2,227			8,731			1,719	897	25	254	13,853		
		Sample	771			4,496			452	245	0	0	5,964		
		%	34.62			51.49			26.29	27.31	0.00	0.00	43.05		
28	7/09 - 7/15	Catch	5,716	1,219		48,252			2,854	3,744	1,663	377	63,825		
		Sample	2,299	231		11,866			535	544	130	0	15,605		
		%	40.22	18.95		24.59			18.75	14.53	7.82	0.00	24.45		
29	7/16 - 7/22	Catch	18,183	7,013		31,346			1,348	8,046	16,883	3,800	313	86,932	
		Sample	4,157	889		2,107			0	533	0	109	0	7,795	
		%	22.86	12.68		6.72			0.00	6.62	0.00	2.87	0.00	8.97	
30	7/23 - 7/29	Catch	39,590	20,919	442	68,705			1,704	5,517	7,357	9,675	4,005	5,000	162,914
		Sample	6,836	1,882	0	7,830			0	39	0	0	31	0	16,618
		%	17.27	9.00	0.00	11.40			0.00	0.71	0.00	0.00	0.77	0.00	10.20
31	7/30 - 8/05	Catch	32,022	8,230	4,215	117,238			1,738	1,095	10,202	210		174,950	
		Sample	1,682	35	0	6,976			0	3	0	0		8,696	
		%	5.25	0.43	0.00	5.95			0.00	0.27	0.00	0.00		4.97	
32	8/06 - 8/12	Catch	18,167	9,685	7,185	85,331	3,917	2,135	2,512	212	3,426	78		132,648	
		Sample	2,704	661	251	11,782	578	414	91	0	0	0		16,481	
		%	14.88	6.82	3.49	13.81	14.76	19.39	3.62	0.00	0.00	0.00		12.42	
33	8/13 - 8/19	Catch	11,964	6,902	6,888	114,948			2,077	766	1,656	78	151		145,430
		Sample	618	325	492	4,712	62	0	0	0	0	0		6,209	
		%	5.17	4.71	7.14	4.10			0.00	0.00	0.00	0.00		4.27	
34	8/20 - 8/26	Catch	3,592	2,216	2,553	26,683			840	658		1,723		38,265	
		Sample	1,292	737	999	2,889			0	31		0		5,948	
		%	35.97	33.26	39.13	10.83			0.00	4.71		0.00		15.54	
35	8/27 - 9/02	Catch	1,137	1,404	204	14,835			191	46		300		18,117	
		Sample	189	292	14	426			27	0		9		957	
		%	16.62	20.80	6.86	2.87			14.14	0.00		3.00		5.28	
36	9/03 - 9/09	Catch	43											43	
		Sample	1											1	
		%	2.33											2.33	
37	9/10 - 9/16	Catch		33										33	
		Sample		3										3	
		%		9.09										9.09	
38	9/17 - 9/23	Catch	1	18										19	
		Sample	0	0										0	
		%	0.00	0.00										0.00	
39	9/24 - 9/30	Catch		2										2	
		Sample		0										0	
		%		0.00										0.00	
Total		Catch	132,642	57,641	21,487	516,069	3,917	6,948	12,585	22,939	46,928	9,932	5,944	837,032	
		Sample	20,549	5,055	1,756	53,084	640	441	161	1,523	798	270	0	84,277	
		%	15.49	8.77	0.17	10.29	16.34	6.35	1.28	6.64	1.70	2.72	0.00	10.07	

Table 7. Chinook salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1989.

Stat. Week	Dates	District								Total
		101	106	107	108	111	115	182	183	
24	6/11 - 6/17	Catch			58			160	68	286
		Sample			0			0	0	0
		%			0.00			0.00	0.00	0.00
25	6/18 - 6/24	Catch	766	222		150	495	72	55	67
		Sample	519	146		75	264	31	0	0
		%	67.75	65.77		50.00	53.33	43.06	0.00	0.00
										1,035
										56.65
26	6/25 - 7/01	Catch	700	227	977	18	451	178	132	40
		Sample	340	119	0	0	240	48	0	0
		%	48.57	52.42	0.00	0.00	53.22	26.97	0.00	0.00
										747
27	7/02 - 7/08	Catch	344	64	629		332	240	69	19
		Sample	249	44	0		57	131	0	0
		%	72.38	68.75	0.00		17.17	54.58	0.00	0.00
										481
28	7/09 - 7/15	Catch	180	148	80	14	217	405	31	55
		Sample	96	102	0	2	142	0	0	0
		%	53.33	68.92	0.00	14.29	65.44	0.00	0.00	342
										30.27
29	7/16 - 7/22	Catch	144	120	108	30	120	240	20	56
		Sample	45	40	0	8	50	134	0	0
		%	31.25	33.33	0.00	26.67	41.67	55.83	0.00	0.00
										277
30	7/23 - 7/29	Catch	57	166		59	54	97	5	9
		Sample	16	58		25	20	20	0	0
		%	28.07	34.94		42.37	37.04	20.62	0.00	0.00
										447
31	7/30 - 8/05	Catch	54	98	68	6	20	235	2	483
		Sample	31	30	0	0	14	19	0	94
		%	57.41	30.61	0.00	0.00	70.00	8.09	0.00	19.46
32	8/06 - 8/12	Catch	36	40			6	139	2	1
		Sample	15	11			9	109	0	0
		%	41.67	27.50			150.00	78.42	0.00	64.29
										144
33	8/13 - 8/19	Catch	47	118			28	227	2	422
		Sample	56	108			19	80	0	263
		%	119.15	91.53			67.86	35.24	0.00	62.32
34	8/20 - 8/26	Catch	11	139		4	16	52		222
		Sample	11	36		0	11	24		82
		%	100.00	25.90		0.00	68.75	46.15		36.94
35	8/27 - 9/02	Catch	28	159	1	48	34	34		304
		Sample	15	31		31	4	37		118
		%	53.57	19.50	0.00	64.58	11.76	108.82		38.82
36	9/03 - 9/09	Catch	4	12		1	29	37		83
		Sample	5	12		0	24	28		69
		%	125.00	100.00		0.00	82.76	75.68		83.13
37	9/10 - 9/16	Catch	13	25	1		6	25		70
		Sample	7	26	0		6	11		50
		%	53.85	104.00	0.00		100.00	44.00		71.43
38	9/17 - 9/23	Catch	6	1		3	8			18
		Sample	3	0		0	9			12
		%	50.00	0.00		0.00	112.50			66.67
39	9/24 - 9/30	Catch			1					1
		Sample			0					0
		%			0.00					0.00
40	10/01 - 10/07	Catch							5	5
		Sample						0	0	0
		%						0.00	0.00	35.74
Total		Catch	2,384	1,544	1,866	388	1,811	1,989	478	320
		Sample	1,405	766	0	141	860	681	0	0
		%	58.93	49.61	0.00	36.34	47.49	34.24	0.00	3,853
										35.74

Table 8. Coho salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1989.

Stat. Week	Dates	District										Total		
		101	106	107	108	111	115	182	183	185	192			
24	6/11 - 6/17	Catch Sample %										26 0 0.00		
25	6/18 - 6/24	Catch Sample %	631 623 98.73	540 394 72.96	2 3 150.00	19 0 0.00	77 26 33.77	1 0 0.00	30 0 0.00			1,300 1,046 80.46		
26	6/25 - 7/01	Catch Sample %	1,676 898 53.58	1,138 564 49.56		61 43 70.49	92 17 18.48		51 0 0.00			3,018 1,522 50.43		
27	7/02 - 7/08	Catch Sample %	1,736 897 51.67	1,794 868 48.38		329 11 3.34	549 348 63.39	3 0 0.00	55 0 0.00			4,466 2,124 47.56		
28	7/09 - 7/15	Catch Sample %	1,272 577 45.36	3,360 1,018 30.30	1 0 0.00	21 3 14.29	487 204 41.89	337 6 1.78	5 0 0.00	468 0 0.00		5,951 1,808 30.38		
29	7/16 - 7/22	Catch Sample %	1,904 790 41.49	5,822 1,703 29.25		17 3 17.65	683 172 25.18	194 111 57.22	82 0 0.00	331 0 0.00		9,033 2,779 30.76		
30	7/23 - 7/29	Catch Sample %	1,422 362 25.46	5,815 1,829 31.45		63 50 79.37	1,114 378 33.93	390 8 2.05	100 0 0.00	189 0 0.00		9,093 2,627 28.89		
31	7/30 - 8/05	Catch Sample %	2,953 858 29.06	7,993 2,539 31.77		70 10 14.29	1,577 506 32.09	941 28 2.98	42 0 0.00	1 0 0.00		13,577 3,941 29.03		
32	8/06 - 8/12	Catch Sample %	2,183 861 39.44	6,808 2,317 34.03		17 0 0.00	1,507 802 53.22	1,143 317 27.73	343 0 0.00	35 0 0.00		12,036 4,297 35.70		
33	8/13 - 8/19	Catch Sample %	2,282 1,006 44.08	12,707 4,357 34.29		275 0 0.00	3,568 1,005 28.17	2,368 641 27.07	835 0 0.00	25 0 0.00		22,060 7,009 31.77		
34	8/20 - 8/26	Catch Sample %	3,209 827 25.77	14,739 2,987 20.27		1,090 0 0.00	13,357 5,131 38.41	3,660 2,333 63.74	2,310 0 0.00	999 0 0.00	364 0 0.00	10,256 0 0.00	49,984 11,278 22.56	
35	8/27 - 9/02	Catch Sample %	4,842 2,014 41.59	12,055 3,258 27.03	7 0 0.00	1,905 656 34.44	13,460 3,017 22.41	5,819 924 15.88	8,271 0 0.00	1,381 0 0.00	1,229 0 0.00	17,796 0 0.00	66,765 9,869 14.78	
36	9/03 - 9/09	Catch Sample %	6,783 2,506 36.95	8,007 2,412 30.12		219 0 0.00	801 110 13.73	5,963 1,923 32.25	16,092 6,388 39.70	14,609 0 0.00	2,119 0 0.00	2,641 0 0.00	21,444 0 0.00	78,678 13,339 16.95
37	9/10 - 9/16	Catch Sample %	8,245 2,947 35.74	11,657 3,889 33.36		160 0 0.00	5,218 1,198 22.96	9,939 2,574 25.90	22,116 0 0.00	2,202 0 0.00	4,914 0 0.00	21,678 0 0.00	86,129 10,608 12.32	
38	9/17 - 9/23	Catch Sample %	11,210 6,219 55.48	1,343 266 19.81	426 0 0.00		4,469 338 7.56	8,706 3,385 38.88	11,516 0 0.00	2,667 0 0.00	2,683 0 0.00	10,664 0 0.00	53,684 10,208 19.01	
39	9/24 - 9/30	Catch Sample %			529 0.00				6,346 0 0.00	1,146 0 0.00	254 0 0.00	1,307 0 0.00	9,582 0 0.00	
40	10/01 - 10/07	Catch Sample %	3,791 2,374 62.62		51 79 154.90				2,394 0 0.00	137 0 0.00	50 0 0.00	732 0 0.00	7,155 2,453 34.28	
Total		Catch Sample %	54,139 23,759 43.89	93,778 28,401 30.29	1,393 79 5.67	4,261 835 19.60	51,812 14,728 28.43	50,307 17,106 34.00	68,973 0 0.00	11,862 0 0.00	12,135 0 0.00	83,877 0 0.00	432,537 84,908 19.63	

Table 9. Chum salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1989.

Stat. Week	Dates	District								Total
		101	106	107	108	111	115	182	183'	
24	6/11 - 6/17	Catch Sample %								50 0 0.00
25	6/18 - 6/24	Catch Sample %	12,688 6,096 48.05	892 462 51.79	55 25 45.45	298 54 18.12	3,041 257 8.45	1 0 0.00	32 0 0.00	17,007 6,894 40.54
26	6/25 - 7/01	Catch Sample %	16,909 11,185 66.15	2,866 1,269 44.28	21 0 0.00	39 0 0.00	1,206 688 57.05	3,899 286 7.34	2 0 0.00	24,985 13,428 53.74
27	7/02 - 7/08	Catch Sample %	27,706 11,139 40.20	3,476 2,392 68.81	45 0 0.00		2,820 368 13.05	7,556 2,069 27.38	17 0 0.00	41,641 15,968 38.35
28	7/09 - 7/15	Catch Sample %	28,869 13,677 47.38	10,735 3,566 33.22		1,440 545 37.85	4,171 1,200 28.77	4,081 257 6.30	35 0 0.00	49,348 19,245 39.00
29	7/16 - 7/22	Catch Sample %	29,701 9,784 32.94	8,724 3,463 39.70	226 0 0.00	494 200 40.49	4,753 960 20.20	3,360 197 5.86	115 0 0.00	47,426 14,604 30.79
30	7/23 - 7/29	Catch Sample %	20,209 4,867 24.08	8,238 2,948 35.79		767 382 49.80	2,052 571 27.83	2,777 152 5.47	283 0 0.00	34,365 8,920 25.96
31	7/30 - 8/05	Catch Sample %	23,437 8,102 34.57	7,988 3,012 37.71	559 0 0.00	163 22 13.50	1,104 406 36.78	4,139 15 0.36	116 0 0.00	37,510 11,557 30.81
32	8/06 - 8/12	Catch Sample %	23,816 7,125 29.92	5,015 2,197 43.81		4 0 0.00	438 167 38.13	5,366 1,052 19.60	618 0 0.00	35,278 10,541 29.88
33	8/13 - 8/19	Catch Sample %	29,165 13,833 47.43	3,895 1,697 43.57		100 0 0.00	1,180 387 32.80	5,144 1,190 23.13	901 0 0.00	40,386 17,107 42.36
34	8/20 - 8/26	Catch Sample %	50,278 13,931 27.71	5,187 1,331 25.66		159 0 0.00	3,454 1,028 29.76	8,268 1,810 21.89	1,592 0 0.00	68,958 18,100 26.25
35	8/27 - 9/02	Catch Sample %	40,245 11,125 27.64	3,939 1,456 36.96		109 37 33.94	7,773 1,017 13.08	7,392 814 11.01	4,463 0 0.00	63,927 14,449 22.60
36	9/03 - 9/09	Catch Sample %	28,531 8,890 31.16	2,025 717 35.41	241 0 0.00	45 2 4.44	3,330 985 29.58	24,783 3,043 12.28	3,238 0 0.00	62,199 13,637 21.92
37	9/10 - 9/16	Catch Sample %	19,204 3,916 20.39	3,856 1,420 36.83	13 0 0.00		2,982 715 23.98	24,284 0 0.00	3,357 0 0.00	53,697 6,051 11.27
38	9/17 - 9/23	Catch Sample %	10,502 2,047 19.49	515 81 15.73	50 0 0.00		1,416 114 8.05	19,581 0 0.00	467 0 0.00	32,531 2,242 6.89
39	9/24 - 9/30	Catch Sample %			10 0 0.00				564 0 0.00	1 0 0.00
40	10/01 - 10/07	Catch Sample %		1,757 0.00					154 0 0.00	1,911 0 0.00
Total		Catch Sample %	363,017 125,717 34.63	67,351 26,011 38.62	1,165 0 0.00	3,375 1,213 35.94	36,977 8,660 23.42	123,671 11,142 9.01	15,923 0 0.00	315 0 0.00
										611,794 172,743 28.24

Table 10. Sockeye salmon coded wire tag sampling effort summary for the Southeast Alaska commercial gill net fisheries, 1989.

Stat. Week	Dates	District										Total	
		101	106	107	108	111	115	182	183	185	192		
24	6/11 - 6/17	Catch Sample %						1,635	1,229			2,864	
								0	0			0	
								0.00	0.00			0.00	
25	6/18 - 6/24	Catch Sample %	16,041	6,237		399	6,119	16,483	12,788	10,582		68,649	
			7,769	3,564		204	0	0	0	0		11,537	
			48.43	57.14		51.13	0.00	0.00	0.00	0.00		16.81	
26	6/25 - 7/01	Catch Sample %	14,093	8,727	8	48	7,093	24,511	18,684	4,937		78,101	
			6,429	3,362	0	0	64	0	0	0		9,855	
			45.62	38.52	0.00	0.00	0.90	0.00	0.00	0.00		12.62	
27	7/02 - 7/08	Catch Sample %	17,972	9,902	4		10,378	25,345	26,283	5,334		95,218	
			5,513	5,725	0		58	0	0	0		11,296	
			30.68	57.82	0.00		0.56	0.00	0.00	0.00		11.86	
28	7/09 - 7/15	Catch Sample %	22,229	41,418	4	4,373	17,345	40,196	28,860	16,830		171,255	
			10,194	13,264	0	1,399	53	0	0	0		24,910	
			45.86	32.02	0.00	31.99	0.31	0.00	0.00	0.00		14.55	
29	7/16 - 7/22	Catch Sample %	25,605	40,575		3,541	14,993	58,555	32,989	13,358		189,616	
			5,843	12,360		1,250	0	0	0	0		19,453	
			22.82	30.46		35.30	0.00	0.00	0.00	0.00		10.26	
30	7/23 - 7/29	Catch Sample %	33,641	34,571		1,540	8,032	45,969	43,635	4,569	68	172,025	
			5,847	11,650		601	461	0	0	0	0	18,559	
			17.38	33.70		39.03	5.74	0.00	0.00	0.00	0.00	10.79	
31	7/30 - 8/05	Catch Sample %	28,555	28,913		113	3,976	77,264	40,066	202		179,089	
			10,238	9,681		24	0	0	0	0		19,943	
			35.85	33.48		21.24	0.00	0.00	0.00	0.00		11.14	
32	8/06 - 8/12	Catch Sample %	11,510	10,585		11	2,518	76,826	43,472	314		145,236	
			3,796	3,910		0	0	0	0	0		7,706	
			32.98	36.94		0.00	0.00	0.00	0.00	0.00		5.31	
33	8/13 - 8/19	Catch Sample %	4,709	7,523		20	1,718	52,497	13,551	21		80,039	
			1,885	2,602		0	27	0	0	0		4,514	
			40.03	34.59		0.00	1.57	0.00	0.00	0.00		5.64	
34	8/20 - 8/26	Catch Sample %	2,408	3,255		27	1,471	26,733	6,045	164	23	40,126	
			454	576		0	44	0	0	0	0	1,074	
			18.05	17.70		0.00	2.99	0.00	0.00	0.00	0.00	2.68	
35	8/27 - 9/02	Catch Sample %	1,257	826		7	301	18,943	2,764	35	9	24,142	
			541	261		0	4	0	0	0	0	806	
			43.04	31.60		0.00	1.33	0.00	0.00	0.00	0.00	3.34	
36	9/03 - 9/09	Catch Sample %	267	152		4	48	6,428	621	13	6	8	7,547
			121	22		0	0	0	0	0	0	143	
			45.32	14.47		0.00	0.00	0.00	0.00	0.00	0.00	1.89	
37	9/10 - 9/16	Catch Sample %	86	43		24	1,619	352	17	3	1	2,145	
			20	21		0	0	0	0	0	0	41	
			23.26	48.84		0.00	0.00	0.00	0.00	0.00	0.00	1.91	
38	9/17 - 9/23	Catch Sample %	31	7		3	565	28	1			635	
			2	1		0	0	0	0			3	
			6.45	14.29		0.00	0.00	0.00	0.00			0.47	
39	9/24 - 9/30	Catch Sample %							45			45	
								0.00				0.00	
40	10/01 - 10/07	Catch Sample %						21				21	
								0				0	
								0.00				0.00	
Total		Catch Sample %	178,404	192,734	16	10,083	74,019	471,934	271,839	57,606	41	77	1,256,753
			58,652	66,999	0	3,478	711	0	0	0	0	0	129,840
			32.88	34.76	0.00	34.49	0.96	0.00	0.00	0.00	0.00	0.00	10.33

Table 11. Chinook salmon scale, age, sex, and size sampling summary for the Southeast Alaska summer troll fisheries, 1989.

District	Statistical Week					
	23	24	25	26	27	28
101		33	20	50	95	30
102					17	127
103	60		120		81	
104					155	295
105						51
106	5					
109	188		262	100	80	73
110	250	8	156			
112	42		15			
113	321	8	291		280	280
114	248	12	95		50	60
116					30	20
154					110	
157					140	230
171					170	224
172					16	49
174	23				42	65
181					11	40
189					12	40
Total	1,137	61	959	150	1,289	1,584

Table 12. Coho salmon scale, age, sex, and size sampling summary for the Southeast Alaska summer troll fisheries, 1989.

Stat Week	District														Total			
	101	102	103	104	105	109	112	113	114	116	157	171	172	174	181	183	189	
25						48											48	
26						50			40								90	
27						80		20					40				140	
28	10	180				80		270			20		80	20			660	
29	110		80					210	50	20		30	150	20	40		710	
30	10			50	80	30	150	40	20						40		420	
31						80		200	30						60		370	
32	130					80		230	70				240		40	40		830
33	130		80	47	90	40	143		190				130			20	40	910
34						50	20	80	20									170
35						30	80	30						40		26		206
36	124					30	150						80					384
37						120	100	137										357
38														40		20	60	

Table 13. Chinook salmon scale, age, sex, and size sampling summary for the Southeast Alaska purse seine fisheries, 1989.

Stat Week	District							Total
	101	102	104	112	113	172	174	
27				12				12
28				8	30			38
29					8			8
30								0
31			47		26	49		122
32	9	4	65			20	19	117
33								0
34								0
35		65	52			6		123

Table 14. Coho salmon scale, age, sex, and size sampling survey for the Southeast Alaska purse seine fisheries, 1989.

Week	District							Total
	101	102	104	110	112	113	114	
27			50				9	59
28							0	
29				40	15			55
30	55	79			207	30	371	
31	109		5		85			199
32			90	102	100	40		332
33					60			60
34					100			100
35	40				20			60

Table 15. Chum salmon scale, age, sex, and size sampling summary for the Southeast Alaska purse seine fisheries, 1989.

Week	Districts												Total
	101	102	103	104	105	106	107	109	110	112	113	114	
27	371			280					600	300	227		1,778
28	173			420				100	146	420	263		1,522
29	301			300				120	720	457	160		2,058
30	93	263		262				138	120	300	265		1,441
31	297	40		200				71	279	40			927
32	669	114		260	240	200	200		103				1,786
33	900			300	47				60		233		1,540
34	300	60	114	280					120				874
35	380	120		340					120				960

Table 16. Sockeye salmon scale, age, sex, and size sampling summary for the Southeast Alaska purse seine fisheries, 1989.

Week	Districts										Total
	101	102	103	104	106	107	109	110	112	113	
27	354			592			40	150		40	1,176
28	780	120		561			100	549	286	50	2,446
29	894			737			100	781	343	120	2,975
30	970	407		600			100	120	236	40	2,593
31	1,058	109		772			73	351	100		2,463
32	668	362	50	452	240	250		160	40		2,222
33	319	97		350				200		55	1,021
34	484		176	350				200			1,210
35	40			349				61			450

Table 17. Chinook salmon scale, age, sex, and size sampling summary for the Southeast Alaska gill net fisheries, 1989.

Stat Week	Districts					Total
	101	106	111	182	183	
24				160	29	189
25	165		41	46		252
26	48	23	102	65		238
27	67			20		87
28	36					36
29	29			1		30
30	3	2				5
31	7					7
32	4					4
33	1					1
34	6					6
35	6					6
36	4					4

Table 18. Coho salmon scale, age, sex, and size sampling summary for the Alaska gill net fisheries, 1989.

Week	Districts								Total
	101	106	111	115	182	183	185	192	
26	40								40
27	33	40		40					113
28	73								73
29	40								40
30	19		42						61
31	268		33						301
32		40	70						110
33			110	60	60				230
34		80	130	50	154	228		330	972
35		120	60		520	323	80	200	1,303
36		120	37	120	580	157	120	140	1,274
37				170	520	177	120	197	1,184
38				60	600	147	209	50	1,066

Table 19. Chum salmon scale, age, sex, and size sampling survey of Southeast Alaska gill net fisheries, 1989.

Week	Districts						Total
	101	106	108	111	115	182	
25	326	160			118		604
26	274	300		62	277		913
27	200	299		73	300		872
28	200	300		461	309		1,270
29	320	300	90	304	300		1,314
30	160	380		262	272		1,074
31	408	300		156	200		1,064
32	687	540		167	240		1,634
33	680	295		203	240		1,418
34	280			323	240		843
35	200			156	240	80	676
36	200			139	240	62	641
37				79	240	80	399
38					240		

Table 20. Sockeye salmon scale, age, sex, and size sampling survey for the Southeast Alaska gill net fisheries, 1989.

Week	Districts								Total
	101	106	108	111	115	182	183	192	
24						100	160		260
25	600	738	205	809	452	100	300		3,204
26	630	710	35	564	600	464	460		3,463
27	563	700		692	560	621	381		3,517
28	581	690	409	626	621	526	553		4,006
29	597	840	353	680	640	762	293		4,165
30	619	750	352	781	732	544	260	73	4,111
31	755	710	21	660	400	596	13		3,155
32	951	693		476	640	508	100		3,368
33	523	680		398	560	218			2,379
34	308	165		93	680	103	32		1,381
35	244				560	40			844
36	106				560	40			706
37					265				265
38					131				131

Table 21. Pink salmon sex composition in proportion males, 1989.

Statistical Week	District																
					Southern Dall Is.		Noyes Island		112-16				113				
	101 Combined	102	103	104 Combined	104-10, 20	104-35, 40	106	107	109	110	Combined	112	112-18	112-19	112-41	Combined	113-51
26	.728 (217) ¹																
27																	
28	.588 (400)			.700 (2123)		.978 (1145)				.635 (834)	.650 (400)	.596 (2826)	.593 (1722)	.650 (400)	.618 (857)	.618 (857)	
29	.615 (1102)			.704 (625)	.620 (150)	.731 (475)				.624 (908)	.543 (5868)	.558 (3755)	.560 (860)	.566 (3726)	.557 (2559)	.587 (1167)	
30	.574 (698)	.678 (400)		.703 (750)	.673 (150)	.738 (400)				.560 (200)	.568 (800)	.499 (2527)	.445 (871)	.534 (841)	.526 (641)		
31	.492 (887)			.550 (1028)	.593 (150)	.542 (878)				.443 (400)	.439 (205)	.490 (1614)	.490 (1614)				
32	.488 (1000)	.550 (200)	.544 (872)	.442 (1350)	.522 (550)	.388 (800)	.545 (202)	.526 (800)	.368 (400)	.429 (392)	.437 (2572)	.428 (2172)	.326 (650)				
33	.516 (700)	.368 (800)		.394 (700)	.393 (300)				.385 (400)	.363 (400)	.407 (2453)	.412 (1853)					
34	.381 (1139)	.439 (802)	.412 (1100)	.340 (150)	.340 (150)				.414 (401)	.400 (1030)	.362 (1994)	.347 (1243)					
35	.378 (550)	.355 (400)		.362 (710)		.362 (710)					.304 (1274)	.304 (1274)					

¹ Sample size is in parenthesis

Table 22. Troll fishery performance data for 1989.

Week	Sampling Area						Total
	1	2	3	4	5	6	
27 Interviews	49	87	53	41	31	11	272
Boat Days	203.0	270.3	106.0	60.8	84.5	36.0	760.6
Chinook	8,769	6,116	830	193	1,028	625	17,561
Chinook CPUE	43.1	22.6	7.8	3.1	12.1	17.3	23
Coho	585	1,613	2,317	220	790	1,558	7,083
Coho CPUE	2.8	5.9	21.8	3.6	9.3	43.2	9.3
28 Interviews	52	62	60	46	22	21	263
Boat Days	267.5	263.5	167.5	63.8	58.5	91.0	911.8
Chinook	6,877	3,903	1,439	215	803	895	14,132
Chinook CPUE	25.7	14.8	8.5	3.3	13.7	9.8	15.5
Coho	2,021	2,902	3,200	255	799	2,445	11,622
Coho CPUE	7.5	11.0	19.1	4.0	13.6	26.8	12.7
29 Interviews	11	24	25	31	2	10	103
Boat Days	18.5	91.0	88.0	35.5	4.0	41.5	278.5
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	1,407	6,111	4,144	435	20	2,496	14,613
Coho CPUE	76.0	67.1	47.0	12.2	5.0	60.1	52.5
30 Interviews	37	57	45	51	19	23	232
Boat Days	132.5	236.8	157.0	86.0	36.5	109.5	758.3
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	12,356	19,665	10,980	1,406	1,375	6,336	52,118
Coho CPUE	93.2	83.0	69.9	16.3	37.6	57.8	68.7
31 Interviews	28	60	37	29	23	21	198
Boat Days	76.5	293.5	124.5	43.0	41.0	100.3	678.8
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	5,542	19,055	6,890	953	852	5,572	38,864
Coho CPUE	72.4	64.9	55.3	22.1	20.7	55.5	57.3
32 Interviews	55	81	41	49	4	20	250
Boat Days	217.5	279.5	89.0	83.0	11.0	87.8	767.8
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	20,299	18,928	4,127	3,016	92	6,205	52,667
Coho CPUE	93.3	67.7	46.3	36.3	8.3	70.6	68.6
33 Interviews	45	52	23	26	20	14	180
Boat Days	237.3	169.5	74.0	51.0	67.5	46.0	645.3
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	18,047	10,516	3,375	1,986	1,139	2,160	37,223
Coho CPUE	76.0	62.0	45.6	38.9	16.8	46.9	57.7
34 Interviews	15	12		34	1		62
Boat Days	16.5	25.0		45.0	1.0		87.5
Chinook	0	0		0	0		0
Chinook CPUE	0	0		0	0		0
Coho	524	1,416		1,566	42		3,548
Coho CPUE	31.7	56.6		34.8	42.0		40.5

Table 22. Troll fishery performance data for 1989 (continued).

Week	Sampling Area						Total
	1	2	3	4	5	6	
35 Interviews	60	63	14	88	16	25	266
Boat Days	226.0	250.0	64.5	212.0	59.8	114.5	926.8
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	19,182	21,539	2,630	8,593	1,846	3,630	57,420
Coho CPUE	84.8	86.1	40.7	40.5	30.8	31.7	62.0
36 Interviews	31	8	1	36	4	7	87
Boat Days	86.3	20.5	7.0	70.0	15.0	22.0	220.8
Chinook	0	0	0	0	0	0	0
Chinook CPUE	0	0	0	0	0	0	0
Coho	8,557	1,068	184	4,191	507	663	15,170
Coho CPUE	99.2	52.0	26.2	59.8	33.8	30.1	68.7
37 Interviews	39	10		68	2		119
Boat Days	123.0	38.0		175.5	3.5		340.0
Chinook	0	0		0	0		0
Chinook CPUE	0	0		0	0		0
Coho	11,683	1,830		6,674	62		20,249
Coho CPUE	94.9	48.1		38.0	17.7		59.6
38 Interviews	30	5		23	2		60
Boat Days	50.8	16.0		56.0	4.0		126.8
Chinook	0	0		0	0		0
Chinook CPUE	0	0		0	0		0
Coho	2,530	645		1,846	40		5,061
Coho CPUE	49.8	40.3		32.9	10.0		39.9

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